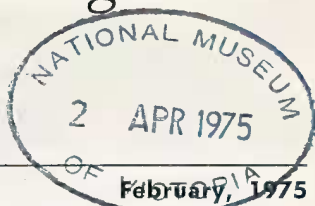


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NEW PSOCOPTERA RECORDS FROM AUSTRALIAN CAVES

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Through the courtesy of Mrs. J. Lowry and Mr. M. R. V. Gray I have received material of Psocoptera from some Australian caves from which this group of insects has not previously been reported. These new records are given below. Records from a few other caves have been published (Smithers, 1964; Richards, 1971).

Family TROGIIDAE

Lepinotus inquilinus Heyden

WESTERN AUSTRALIA: 1 ♀, 2 nymphs, under swallow nest, in guano; 1 ♀, 5 nymphs, from abandoned swallow nest, Arramall Cave, E22, Arrowsmith R., 3.ii.1973 (J. Lowry), 1 ♀, under nest material, near entrance; 7 ♀, 8 nymphs, under goat carcass, 6 ♀, 3 nymphs, from goat carcass, in dried rumen, Weelawadji Cave, E24, near Eneabba, 8.x.1972 (J. Lowry).

This is a cosmopolitan domestic species; it has not previously been recorded from Australian caves.

Family PSYLLIPSOCIDAE

Psyllipsocus ramburii Selys-Longchamps

WESTERN AUSTRALIA: 1 ♀, rock pile, dark zone, Abrakurrie Cave, 1.i.1972 (M. Gray). 1 ♀, 2 nymphs, River Cave, Arrowsmith River, near Dongara, 31.iii.1973; 1 ♀, 1 nymph, same cave, 24.vi.1973; 1 ♀, Arramall Cave, E22, Arrowsmith River, 3-4.ii.1973; 2 nymphs, same cave, 31.iii.1973; 1 nymph, same cave, 23.vi.1973; 1 nymph, same cave, 17.xi.1973; 1 ♀, 1 nymph, Jingamia Cave, L6, near Watharoo, 29.ix.1972; 1 ♀, Stockyard Tunnel, E1, near Eneabba, 25.v.1973 (J. Lowry).

NEW SOUTH WALES: 3 ♀, 8 nymphs, guano, Fig Tree, Wombeyan, 100 ft., 30.xi.1965 (collector unknown).

Family LIPOSCELIDAE

Liposcelis corrosens Broadhead

WESTERN AUSTRALIA: 2 ♀, from fox carcass, 23.iv.1972; 1 ♂, 1 ♀, from under swallow nest with fairly fresh guano, 3.ii.1973; 1 ♂, from old bat guano, 4.ii.1973, Arramall Cave, E22, Arrowsmith R.

(J. Lowry), 1 ♂, 1 ♀, from nest material on floor, Weelawadji Cave, E24, near Eneabba, 8.x.1972 (J. Lowry).

This species has been recorded from Australia (as *L. subfuscus* Broadhead) from stored products in Queensland (Champ and Smithers, 1966). It occurs in many parts of the world.

Family ELIPSOCIDAE

Propsocus pulchripennis (Perkins)

WESTERN AUSTRALIA: 2 ♀♀, near entrance, Stockyard Cave, E3, near Eneabba, 26.i.1974; 2 ♂, 2 ♀, from dead, but not yet dry, grasshopper, same locality and date (J. Lowry).

This species is widely distributed in Australia and its occurrence in a cave is probably fortuitous; it was found only near the cave entrance.

Acknowledgements

I would like to thank the collectors of the material listed in this note for the opportunity of studying it.

References

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PROTECTION OF BUTTERFLIES IN QUEENSLAND

In the recent *Queensland Fauna Conservation Act 1974* two butterfly species have been declared "protected fauna". These are listed as:

Cairns birdwing butterfly *Ornithoptera priamus*
 Mountain blue butterfly *Papilio ulysses*

These two species are now subject to the same restrictions on collecting, breeding and possession that have previously applied to birds and mammals in this State. It is therefore necessary to obtain a "Permit to take fauna" (plus a "Permit to remove fauna" if specimens are being taken interstate) before material can be legally collected. Permits will only be issued if the specimens are to be used for scientific study. The prescribed penalty for collecting protected fauna without a permit is a minimum of \$50 and a maximum of \$1,000.

The position regarding the breeding of these species still remains uncertain, although steps are now being taken to register commercial breeders.

There is some ambiguity regarding which subspecies of the Birdwing are protected. The name "Cairns birdwing" implies that only the subspecies *euphorion* is protected, while the Latin name given does not stipulate subspecies. Because of this ambiguity, persons intending to collect should first contact the Queensland authorities to clarify the position.